

ABSTRACT

1 A temperature control system includes a cabinet or system housing having a
2 plurality of heating compartments for containing intravenous solution bags or other
3 medical items. Each heating compartment is independently heat controlled via a
4 controller, and includes a heating assembly including a heater, a U-shaped heating plate,
5 a temperature sensor and a cut-out switch for disabling the heater when a threshold
6 temperature is exceeded. The desired or set point temperature for each heating
7 compartment may be independently entered to the controller via an input device. The
8 heating plate has a generally U-shaped configuration with a thermally conductive bottom
9 wall and thermally conductive side walls extending therefrom. The heater is typically
10 affixed to the underside of the bottom wall, wherein, upon heating of the bottom wall,
11 heat is conducted through the side walls to provide an even distribution of heat to medical
12 items placed within the heating compartment. Each heating compartment may further
13 include a collapsible rack structure allowing a user to selectively partition each heating
14 compartment based upon the specific types of medical items to be heated.